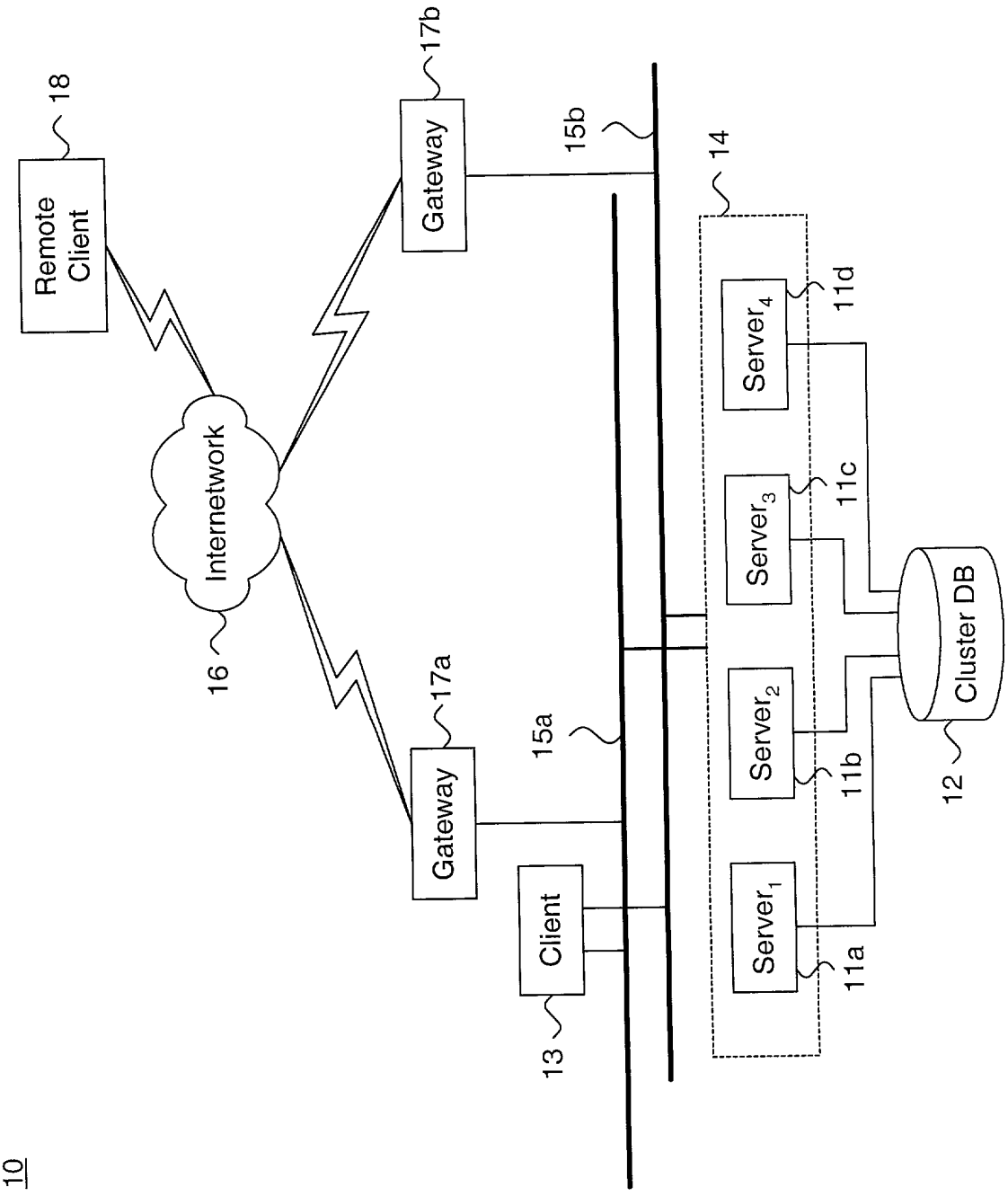
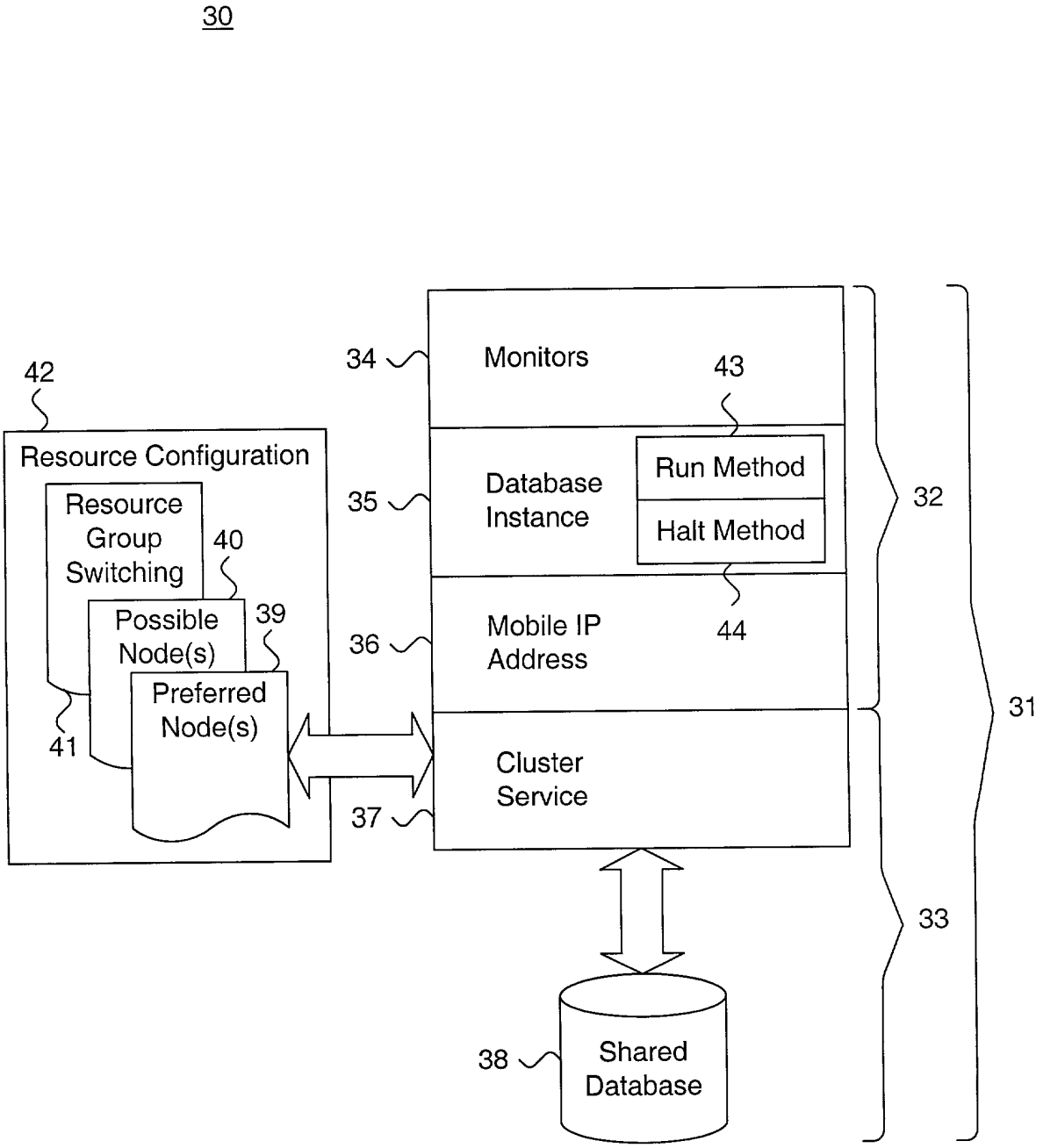

10
18
Remote Client
16
Internetwork
17b
Gateway
17a
Gateway
15b
15a
14
Server4
11d
Server3
11c
Server2
11b
Server1
11a
Cluster DB
12
Client
13

Figure 1.

Figure 2.


30
42
Resource Configuration
Resource Group Switching
40
Possible Node(s)
39
Preferred Node(s)
41
34
Monitors
43
35
Database Instance
Run Method
Halt Method
44
36
Mobile IP Address
37
Cluster Service
32
31
33
38
Shared Database

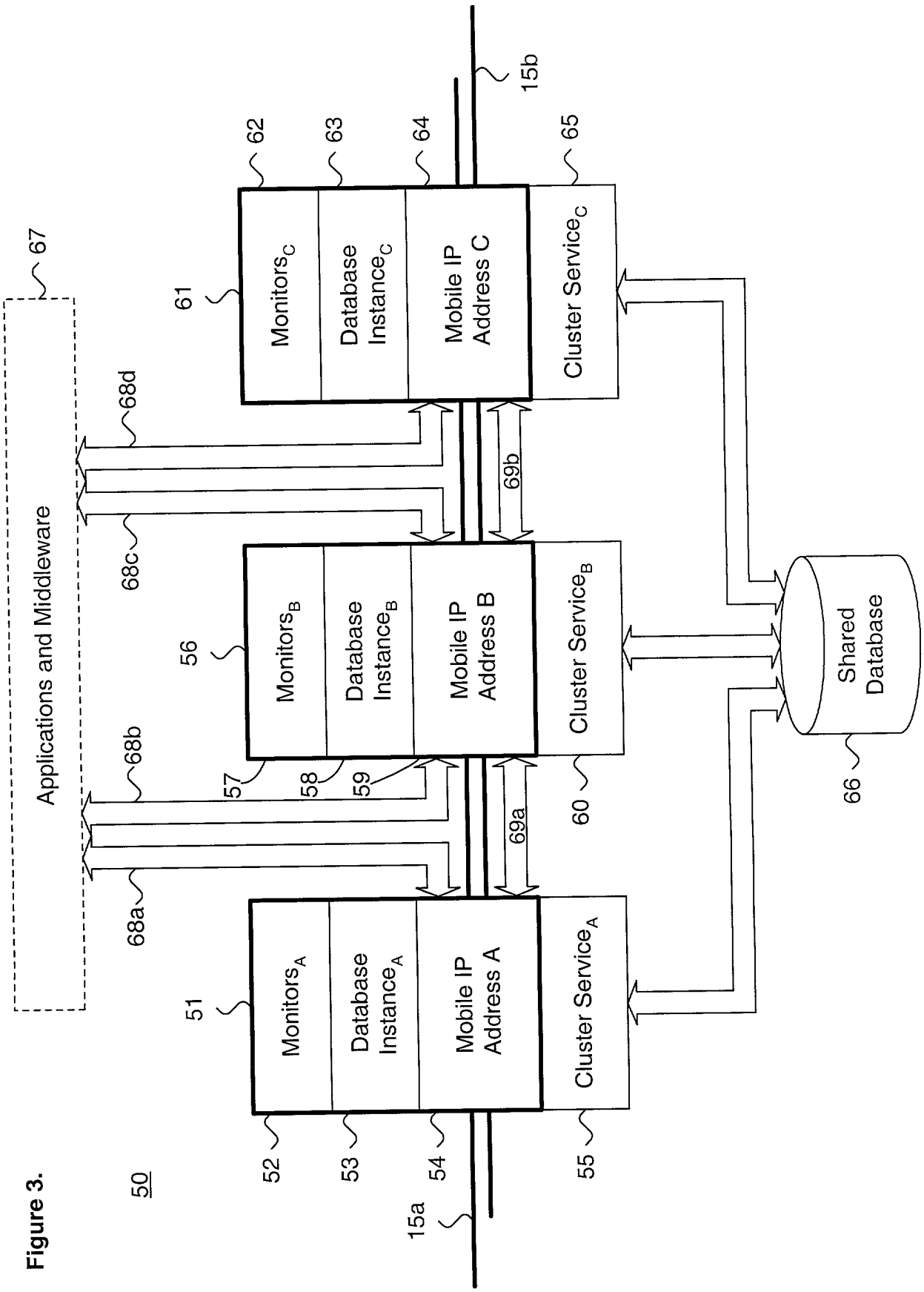

50
Applications and Middleware
67
Monitors$_A$
Database Instance$_A$
Mobile IP Address A
Cluster Service$_A$
51
52
53
54
55
Monitors$_B$
Database Instance$_B$
Mobile IP Address B
Cluster Service$_B$
56
57
58
59
60
Monitors$_C$
Database Instance$_C$
Mobile IP Address C
Cluster Service$_C$
61
62
63
64
65
Shared Database
66
68a
68b
68c
68d
69a
69b
15a
15b

Figure 3.

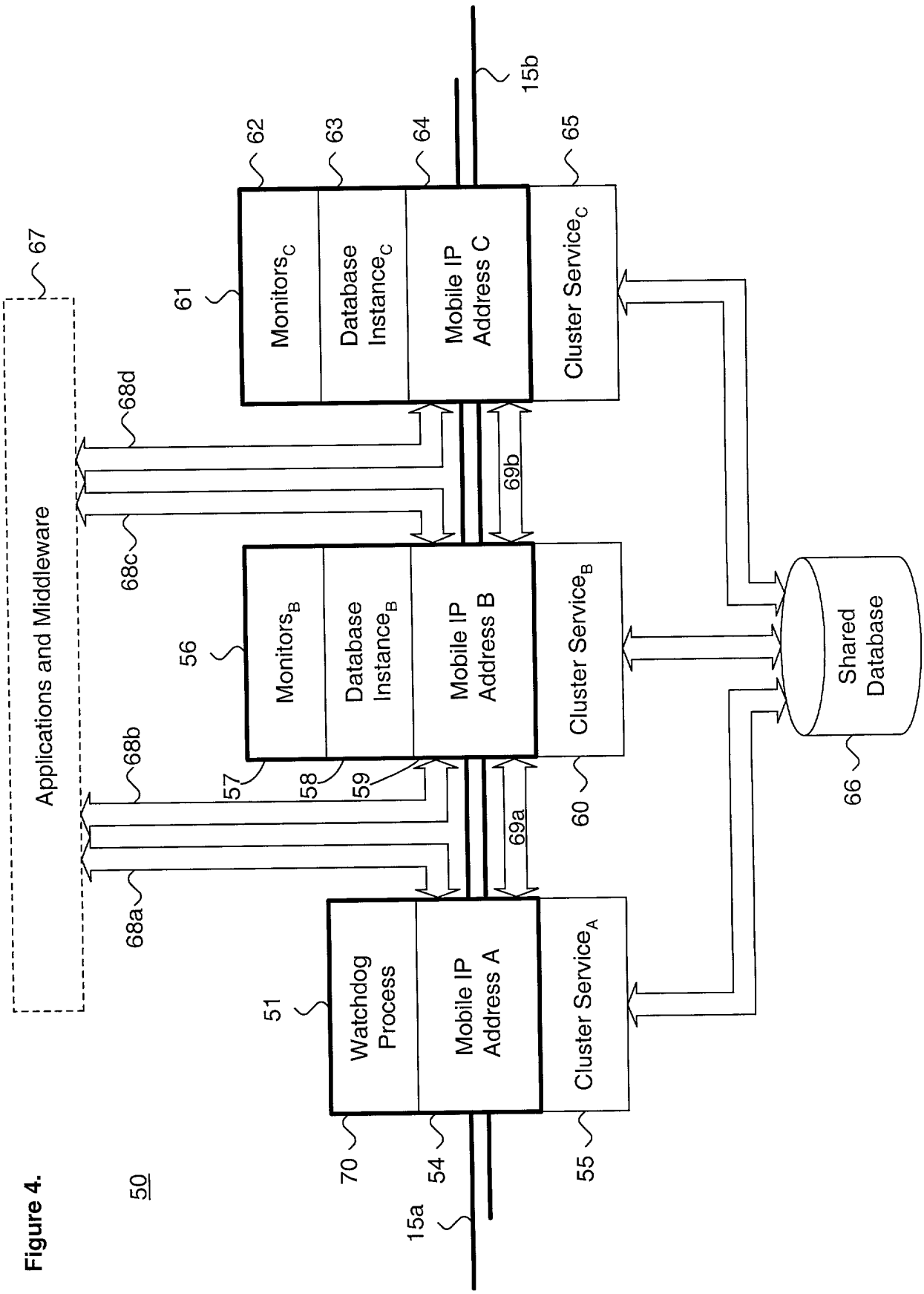

50
Applications and Middleware
67
Monitors$_C$
Database Instance$_C$
Mobile IP Address C
Cluster Service$_C$
61
62
63
64
65
15b
68d
68c
69b
Monitors$_B$
Database Instance$_B$
Mobile IP Address B
Cluster Service$_B$
56
57
58
59
60
68b
69a
Shared Database
66
Watchdog Process
Mobile IP Address A
Cluster Service$_A$
51
68a
70
54
55
15a

Figure 4.

Figure 5.

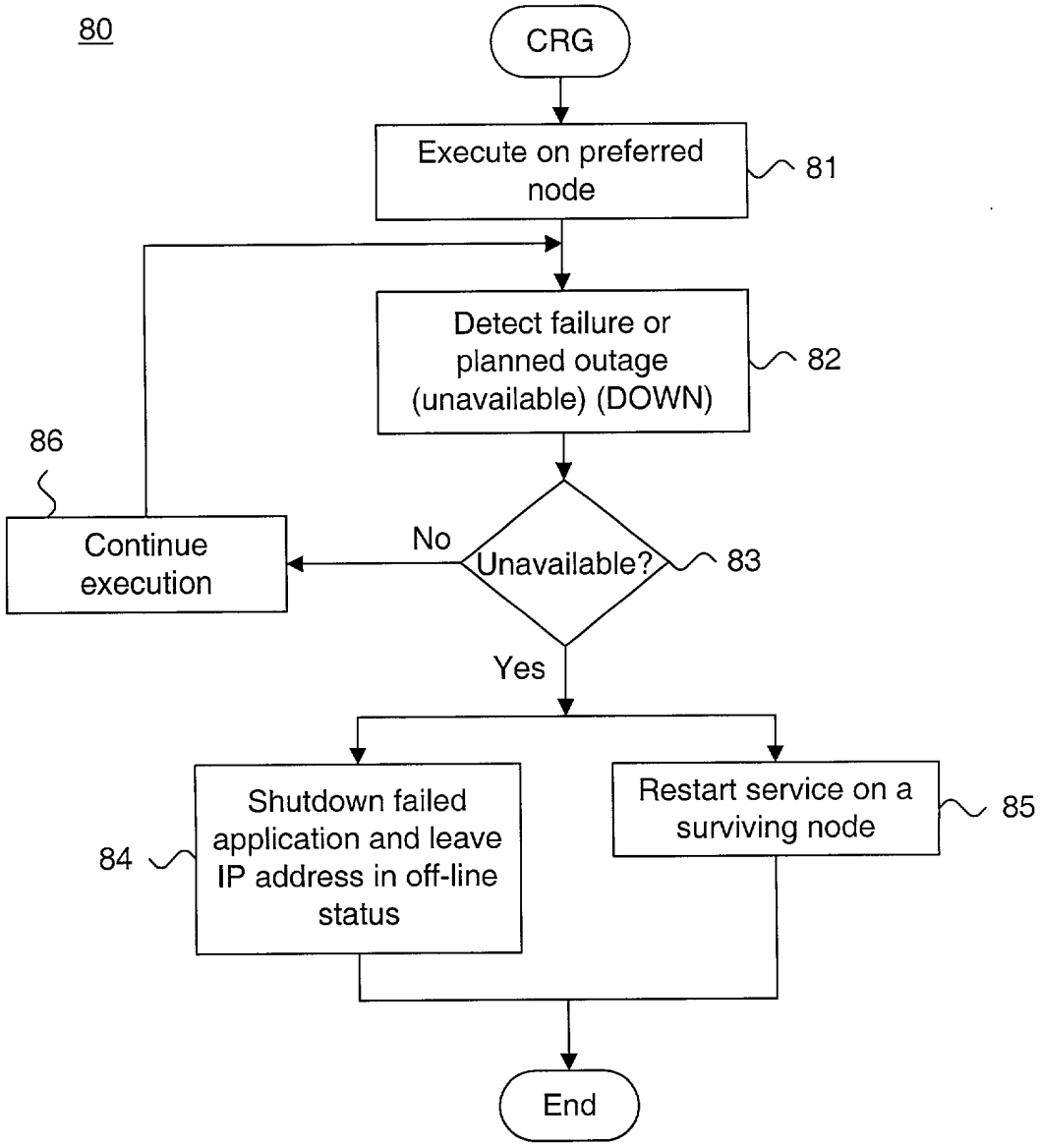

80
CRG
Execute on preferred node
81
Detect failure or planned outage (unavailable) (DOWN)
82
86
Continue execution
No
Unavailable?
83
Yes
Shutdown failed application and leave IP address in off-line status
84
Restart service on a surviving node
85
End

Figure 6.

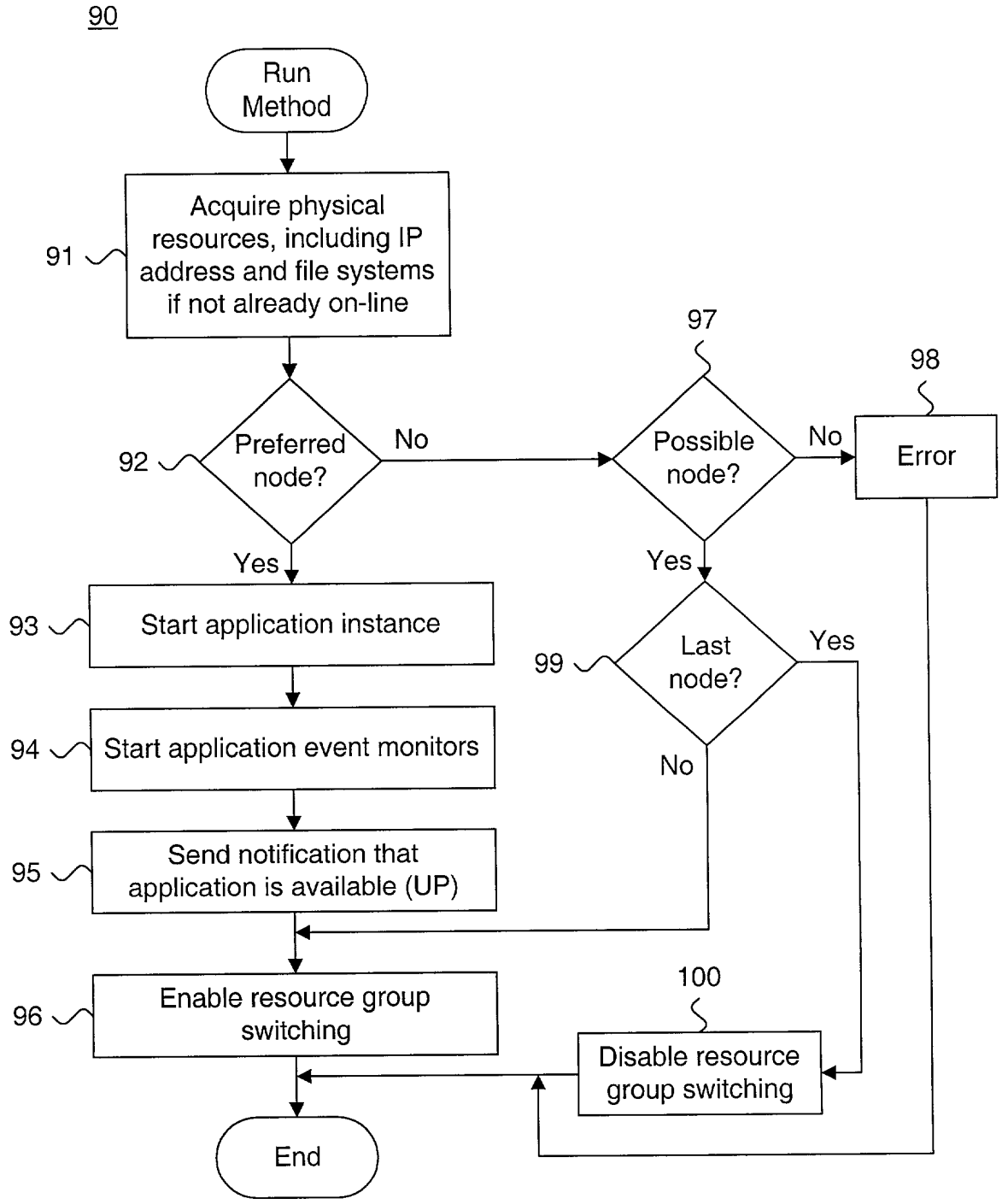
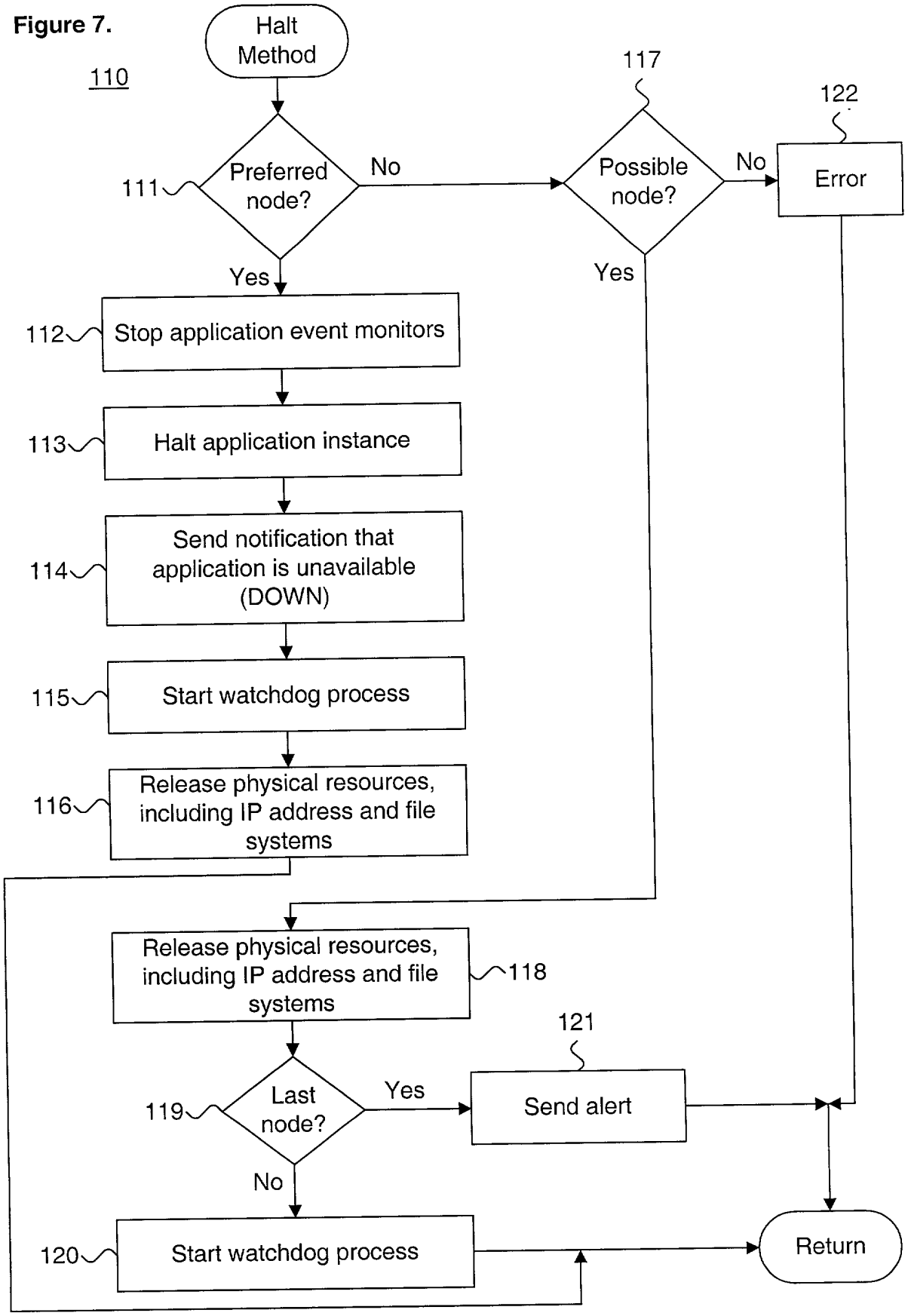

90
Run Method
Acquire physical resources, including IP address and file systems if not already on-line
91
Preferred node?
92
No
Yes
Possible node?
97
No
Error
98
Yes
Start application instance
93
Last node?
99
Yes
No
Start application event monitors
94
Send notification that application is available (UP)
95
Enable resource group switching
96
100
Disable resource group switching
End

Figure 7.


Halt Method
110
Preferred node?
111
No
Possible node?
117
No
Error
122
Yes
Yes
Stop application event monitors
112
Halt application instance
113
Send notification that application is unavailable (DOWN)
114
Start watchdog process
115
Release physical resources, including IP address and file systems
116
Release physical resources, including IP address and file systems
118
Last node?
119
Yes
Send alert
121
No
Start watchdog process
120
Return